



SEQUENCE LISTING

<110> Frisén, Thomas
Holmberg, Johan

<120> Use of Ephrins and Related Molecules to Regulate Cellular Proliferation

<130> 21882-529 UTIL

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<160> 25

<170> PatentIn version 3.2

<210> 1

<211> 205

<212> PRT

<213> Mus musculus

<400> 1

Met Glu Phe Leu Trp Ala Pro Leu Leu Gly Leu Cys Cys Ser Leu Ala
1 5 10 15

Ala Ala Asp Arg His Ile Val Phe Trp Asn Ser Ser Asn Pro Lys Phe
20 25 30

Arg Glu Glu Asp Tyr Thr Val His Val Gln Leu Asn Asp Tyr Leu Asp
35 40 45

Ile Ile Cys Pro His Tyr Glu Asp Asp Ser Val Ala Asp Ala Ala Met
50 55 60

Glu Arg Tyr Thr Leu Tyr Met Val Glu His Gln Glu Tyr Val Ala Cys
65 70 75 80

Gln Pro Gln Ser Lys Asp Gln Val Arg Trp Asn Cys Asn Arg Pro Ser
85 90 95

Ala Lys His Gly Pro Glu Lys Leu Ser Val Lys Phe Gln Arg Phe Thr
100 105 110

Pro Phe Ile Leu Gly Lys Glu Phe Lys Glu Gly His Ser Tyr Tyr Tyr
115 120 125

Ile Ser Lys Pro Ile Tyr His Gln Glu Ser Gln Cys Leu Lys Leu Lys
130 135 140

Val Thr Val Asn Gly Lys Ile Thr His Asn Pro Gln Ala His Val Asn
145 150 155 160

Pro Gln Glu Lys Arg Leu Gln Ala Asp Asp Pro Glu Val Gln Val Leu
165 170 175

His Ser Ile Gly Tyr Ser Ala Ala Pro Arg Leu Phe Pro Leu Val Trp
180 185 190

Ala Val Leu Leu Leu Pro Leu Leu Leu Gln Ser Gln
195 200 205

<210> 2
<211> 209
<212> PRT
<213> Mus musculus

<400> 2

Met Ala Pro Ala Gln Arg Pro Leu Leu Pro Leu Leu Leu Leu Leu
1 5 10 15

Pro Leu Arg Ala Arg Asn Glu Asp Pro Ala Arg Ala Asn Ala Asp Arg
20 25 30

Tyr Ala Val Tyr Trp Asn Arg Ser Asn Pro Arg Phe Gln Val Ser Ala
35 40 45

Val Gly Asp Gly Gly Gly Tyr Thr Val Glu Val Ser Ile Asn Asp Tyr
50 55 60

Leu Asp Ile Tyr Cys Pro His Tyr Gly Ala Pro Leu Pro Pro Ala Glu
65 70 75 80

Arg Met Glu Arg Tyr Ile Leu Tyr Met Val Asn Gly Glu Gly His Ala
85 90 95

Ser Cys Asp His Arg Gln Arg Gly Phe Lys Arg Trp Glu Cys Asn Arg
100 105 110

Pro Ala Ala Pro Gly Gly Pro Leu Lys Phe Ser Glu Lys Phe Gln Leu
115 120 125

Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Arg Pro Gly His Glu Tyr
2

130

135

140

Tyr Tyr Ile Ser Ala Thr Pro Pro Asn Leu Val Asp Arg Pro Cys Leu
145 150 155 160

Arg Leu Lys Val Tyr Val Arg Pro Thr Asn Glu Thr Leu Tyr Glu Ala
165 170 175

Pro Glu Pro Ile Phe Thr Ser Asn Ser Ser Cys Ser Gly Leu Gly Gly
180 185 190

Cys His Leu Phe Leu Thr Thr Val Pro Val Leu Trp Ser Leu Leu Gly
195 200 205

Ser

<210> 3
<211> 230
<212> PRT
<213> Mus musculus

<400> 3

Met Ala Ala Ala Pro Leu Leu Leu Leu Leu Leu Val Pro Val Pro
1 5 10 15

Leu Leu Pro Leu Leu Ala Gln Gly Pro Gly Gly Ala Leu Gly Asn Arg
20 25 30

His Ala Val Tyr Trp Asn Ser Ser Asn Gln His Leu Arg Arg Glu Gly
35 40 45

Tyr Thr Val Gln Val Asn Val Asn Asp Tyr Leu Asp Ile Tyr Cys Pro
50 55 60

His Tyr Asn Ser Ser Gly Pro Gly Gly Gly Ala Glu Gln Tyr Val Leu
65 70 75 80

Tyr Met Val Asn Leu Ser Gly Tyr Arg Thr Cys Asn Ala Ser Gln Gly
85 90 95

Ser Lys Arg Trp Glu Cys Asn Arg Gln His Ala Ser His Ser Pro Ile
100 105 110

Lys Phe Ser Glu Lys Phe Gln Arg Tyr Ser Ala Phe Ser Leu Gly Tyr
115 120 125

Glu Phe His Ala Gly Gln Glu Tyr Tyr Tyr Ile Ser Thr Pro Thr His
130 135 140

Asn Leu His Trp Lys Cys Leu Arg Met Lys Val Phe Val Cys Cys Ala
 145 150 155 160

Ser Thr Ser His Ser Gly Glu Lys Pro Val Pro Thr Leu Pro Gln Phe
 165 170 175

Thr Met Gly Pro Asn Val Lys Ile Asn Val Leu Glu Asp Phe Glu Gly
 180 185 190

Glu Asn Pro Gln Val Pro Lys Leu Glu Lys Ser Ile Ser Gly Thr Ser
 195 200 205

Pro Lys Arg Glu His Leu Pro Leu Ala Val Gly Ile Ala Phe Phe Leu
 210 215 220

Met Thr Leu Leu Ala Ser
 225 230

<210> 4
 <211> 206
 <212> PRT
 <213> Mus musculus

<400> 4

Met Arg Leu Leu Pro Leu Leu Arg Thr Val Leu Trp Ala Ala Leu Leu
 1 5 10 15

Gly Ser Arg Leu Pro Gly Cys Ser Ser Leu Arg His Pro Ile Tyr Trp
 20 25 30

Asn Ser Ser Asn Pro Arg Leu Leu Arg Gly Asp Ala Val Val Glu Leu
 35 40 45

Gly Phe Asn Asp Tyr Leu Asp Ile Phe Cys Pro His Tyr Glu Ser Pro
 50 55 60

Gly Pro Pro Glu Gly Pro Glu Thr Phe Ala Leu Tyr Met Val Asp Trp
 65 70 75 80

Ser Gly Tyr Glu Ala Cys Thr Ala Glu Gly Ala Asn Ala Phe Gln Arg
 85 90 95

Trp Asn Cys Ser Met Pro Phe Ala Pro Phe Ser Pro Val Arg Phe Ser
 100 105 110

Glu Lys Ile Gln Arg Tyr Thr Pro Phe Pro Leu Gly Phe Glu Phe Leu
 115 120 125

Pro Gly Glu Thr Tyr Tyr Tyr Ile Ser Val Pro Thr Pro Glu Ser Pro
130 135 140

Gly Arg Cys Leu Arg Leu Gln Val Ser Val Cys Cys Lys Glu Ser Gly
145 150 155 160

Ser Ser His Glu Ser Ala His Pro Val Gly Ser Pro Gly Glu Ser Gly
165 170 175

Thr Ser Gly Trp Arg Gly Gly His Ala Pro Ser Pro Leu Cys Leu Leu
180 185 190

Leu Leu Leu Leu Leu Pro Ile Leu Arg Leu Leu Arg Val Leu
195 200 205

<210> 5
<211> 228
<212> PRT
<213> Mus musculus

<400> 5

Met Leu His Val Glu Met Leu Thr Leu Leu Phe Leu Val Leu Trp Met
1 5 10 15

Cys Val Phe Ser Gln Asp Pro Gly Ser Lys Val Val Ala Asp Arg Tyr
20 25 30

Ala Val Tyr Trp Asn Ser Ser Asn Pro Arg Phe Gln Arg Gly Asp Tyr
35 40 45

His Ile Asp Val Cys Ile Asn Asp Tyr Leu Asp Val Phe Cys Pro His
50 55 60

Tyr Glu Asp Ser Val Pro Glu Asp Lys Thr Glu Arg Tyr Val Leu Tyr
65 70 75 80

Met Val Asn Phe Asp Gly Tyr Ser Ala Cys Asp His Thr Ser Lys Gly
85 90 95

Phe Lys Arg Trp Glu Cys Asn Arg Pro His Ser Pro Asn Gly Pro Leu
100 105 110

Lys Phe Ser Glu Lys Phe Gln Leu Phe Thr Pro Phe Ser Leu Gly Phe
115 120 125

Glu Phe Arg Pro Gly Arg Glu Tyr Phe Tyr Ile Ser Ser Ala Ile Pro
130 135 140

Asp Asn Gly Arg Arg Ser Cys Leu Lys Leu Lys Val Phe Val Arg Pro
145 150 155 160

Thr Asn Ser Cys Met Lys Thr Ile Gly Val His Asp Arg Val Phe Asp
165 170 175

Val Asn Asp Lys Val Glu Asn Ser Leu Glu Pro Ala Asp Asp Thr Val
180 185 190

His Glu Ser Ala Glu Pro Ser Arg Gly Glu Asn Ala Ala Gln Thr Pro
195 200 205

Arg Ile Pro Ser Arg Leu Leu Ala Ile Leu Leu Phe Leu Leu Ala Met
210 215 220

Leu Leu Thr Leu
225

<210> 6
<211> 345
<212> PRT
<213> Mus musculus

<400> 6

Met Ala Arg Pro Gly Gln Arg Trp Leu Ser Lys Trp Leu Val Ala Met
1 5 10 15

Val Val Leu Thr Leu Cys Arg Leu Ala Thr Pro Leu Ala Lys Asn Leu
20 25 30

Glu Pro Val Ser Trp Ser Ser Leu Asn Pro Lys Phe Leu Ser Gly Lys
35 40 45

Gly Leu Val Ile Tyr Pro Lys Ile Gly Asp Lys Leu Asp Ile Ile Cys
50 55 60

Pro Arg Ala Glu Ala Gly Arg Pro Tyr Glu Tyr Tyr Lys Leu Tyr Leu
65 70 75 80

Val Arg Pro Glu Gln Ala Ala Ala Cys Ser Thr Val Leu Asp Pro Asn
85 90 95

Val Leu Val Thr Cys Asn Lys Pro His Gln Glu Ile Arg Phe Thr Ile
100 105 110

Lys Phe Gln Glu Phe Ser Pro Asn Tyr Met Gly Leu Glu Phe Lys Lys
115 120 125

Tyr His Asp Tyr Tyr Ile Thr Ser Thr Ser Asn Gly Ser Leu Glu Gly
6

130

135

140

Leu Glu Asn Arg Glu Gly Gly Val Cys Arg Thr Arg Thr Met Lys Ile
145 150 155 160

Val Met Lys Val Gly Gln Asp Pro Asn Ala Val Thr Pro Glu Gln Leu
165 170 175

Thr Thr Ser Arg Pro Ser Lys Glu Ser Asp Asn Thr Val Lys Thr Ala
180 185 190

Thr Gln Ala Pro Gly Arg Gly Ser Gln Gly Asp Ser Asp Gly Lys His
195 200 205

Glu Thr Val Asn Gln Glu Glu Lys Ser Gly Pro Gly Ala Gly Gly Gly
210 215 220

Gly Ser Gly Asp Ser Asp Ser Phe Phe Asn Ser Lys Val Ala Leu Phe
225 230 235 240

Ala Ala Val Gly Ala Gly Cys Val Ile Phe Leu Leu Ile Ile Ile Phe
245 250 255

Leu Thr Val Leu Leu Leu Lys Leu Arg Lys Arg His Arg Lys His Thr
260 265 270

Gln Gln Arg Ala Ala Ala Leu Ser Leu Ser Thr Leu Ala Ser Pro Lys
275 280 285

Gly Gly Ser Gly Thr Ala Gly Thr Glu Pro Ser Asp Ile Ile Ile Pro
290 295 300

Leu Arg Thr Thr Glu Asn Asn Tyr Cys Pro His Tyr Glu Lys Val Ser
305 310 315 320

Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu Met Pro Pro Gln
325 330 335

Ser Pro Ala Asn Ile Tyr Tyr Lys Val
340 345

<210> 7
<211> 336
<212> PRT
<213> Mus musculus

<400> 7

Met Ala Met Ala Arg Ser Arg Arg Asp Ser Val Trp Lys Tyr Cys Trp
1 5 10 15

Gly Leu Leu Met Val Leu Cys Arg Thr Ala Ile Ser Arg Ser Ile Val
 20 25 30
 Leu Glu Pro Ile Tyr Trp Asn Ser Ser Asn Ser Lys Phe Leu Pro Gly
 35 40 45
 Gln Gly Leu Val Leu Tyr Pro Gln Ile Gly Asp Lys Leu Asp Ile Ile
 50 55 60
 Cys Pro Lys Val Asp Ser Lys Thr Val Gly Gln Tyr Glu Tyr Tyr Lys
 65 70 75 80
 Val Tyr Met Val Asp Lys Asp Gln Ala Asp Arg Cys Thr Ile Lys Lys
 85 90 95
 Glu Asn Thr Pro Leu Leu Asn Cys Ala Arg Pro Asp Gln Asp Val Lys
 100 105 110
 Phe Thr Ile Lys Phe Gln Glu Phe Ser Pro Asn Leu Trp Gly Leu Glu
 115 120 125
 Phe Gln Lys Asn Lys Asp Tyr Tyr Ile Ile Ser Thr Ser Asn Gly Ser
 130 135 140
 Leu Glu Gly Leu Asp Asn Gln Glu Gly Gly Val Cys Gln Thr Arg Ala
 145 150 155 160
 Met Lys Ile Leu Met Lys Val Gly Gln Asp Ala Ser Ser Ala Gly Ser
 165 170 175
 Ala Arg Asn His Gly Pro Thr Arg Arg Pro Glu Leu Glu Ala Gly Thr
 180 185 190
 Asn Gly Arg Ser Ser Thr Thr Ser Pro Phe Val Lys Pro Asn Pro Gly
 195 200 205
 Ser Ser Thr Asp Gly Asn Ser Ala Gly His Ser Gly Asn Asn Leu Leu
 210 215 220
 Gly Ser Glu Val Ala Leu Phe Ala Gly Ile Ala Ser Gly Cys Ile Ile
 225 230 235 240
 Phe Ile Val Ile Ile Ile Thr Leu Val Val Leu Leu Leu Lys Tyr Arg
 245 250 255
 Arg Arg His Arg Lys His Ser Pro Gln His Thr Thr Thr Leu Ser Leu
 260 265 270

Ser Thr Leu Ala Thr Pro Lys Arg Gly Gly Asn Asn Asn Gly Ser Glu
275 280 285

Pro Ser Asp Val Ile Ile Pro Leu Arg Thr Ala Asp Ser Val Phe Cys
290 295 300

Pro His Tyr Glu Lys Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile
305 310 315 320

Val Gln Glu Met Pro Pro Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
325 330 335

<210> 8
<211> 340
<212> PRT
<213> Mus musculus

<400> 8

Met Gly Ala Pro His Phe Gly Pro Gly Gly Val Gln Val Gly Ala Leu
1 5 10 15

Leu Leu Leu Gly Phe Ala Gly Leu Val Ser Gly Leu Ser Leu Glu Pro
20 25 30

Val Tyr Trp Asn Ser Ala Asn Lys Arg Phe Gln Ala Glu Gly Gly Tyr
35 40 45

Val Leu Tyr Pro Gln Ile Gly Asp Arg Leu Asp Leu Leu Cys Pro Arg
50 55 60

Ala Arg Pro Pro Gly Pro His Ser Ser Pro Ser Tyr Glu Phe Tyr Lys
65 70 75 80

Leu Tyr Leu Val Glu Gly Ala Gln Gly Arg Arg Cys Glu Ala Pro Pro
85 90 95

Ala Pro Asn Leu Leu Leu Thr Cys Asp Arg Pro Asp Leu Asp Leu Arg
100 105 110

Phe Thr Ile Lys Phe Gln Glu Tyr Ser Pro Asn Leu Trp Gly His Glu
115 120 125

Phe Arg Ser His His Asp Tyr Tyr Ile Ile Ala Thr Ser Asp Gly Thr
130 135 140

Arg Glu Gly Leu Glu Ser Leu Gln Gly Gly Val Cys Leu Thr Arg Gly
145 150 155 160

Met Lys Val Leu Leu Arg Val Gly Gln Ser Pro Arg Gly Gly Ala Val
165 170 175

Pro Arg Lys Pro Val Ser Glu Met Pro Met Glu Arg Asp Arg Gly Ala
180 185 190

Ala His Ser Ala Glu Pro Gly Arg Asp Thr Ile Pro Gly Asp Pro Ser
195 200 205

Ser Asn Ala Thr Ser Arg Gly Ala Glu Gly Pro Leu Pro Pro Pro Ser
210 215 220

Met Pro Ala Val Ala Gly Ala Ala Gly Gly Met Ala Leu Leu Leu Leu
225 230 235 240

Gly Val Ala Gly Ala Gly Gly Ala Met Cys Trp Arg Arg Arg Arg Ala
245 250 255

Lys Pro Ser Glu Ser Arg His Pro Gly Pro Gly Ser Phe Gly Arg Gly
260 265 270

Gly Ser Leu Gly Leu Gly Gly Gly Gly Gly Met Gly Pro Arg Glu Ala
275 280 285

Glu Pro Gly Glu Leu Gly Ile Ala Leu Arg Gly Gly Gly Thr Ala Asp
290 295 300

Pro Pro Phe Cys Pro His Tyr Glu Lys Val Ser Gly Asp Tyr Gly His
305 310 315 320

Pro Val Tyr Ile Val Gln Asp Gly Pro Pro Gln Ser Pro Pro Asn Ile
325 330 335

Tyr Tyr Lys Val
340

<210> 9
<211> 205
<212> PRT
<213> Homo sapiens

<400> 9

Met Glu Phe Leu Trp Ala Pro Leu Leu Gly Leu Cys Cys Ser Leu Ala
1 5 10 15

Ala Ala Asp Arg His Thr Val Phe Trp Asn Ser Ser Asn Pro Lys Phe
20 25 30

Arg Asn Glu Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val Asp
35 40 45

Ile Ile Cys Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala Met
50 55 60

Glu Gln Tyr Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu Cys
65 70 75 80

Gln Pro Gln Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro Ser
85 90 95

Ala Lys His Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe Thr
100 105 110

Pro Phe Thr Leu Gly Lys Glu Phe Lys Glu Gly His Ser Tyr Tyr Tyr
115 120 125

Ile Ser Lys Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu Lys
130 135 140

Val Thr Val Ser Gly Lys Ile Thr His Ser Pro Gln Ala His Val Asn
145 150 155 160

Pro Gln Glu Lys Arg Leu Ala Ala Asp Asp Pro Glu Val Arg Val Leu
165 170 175

His Ser Ile Gly His Ser Ala Ala Pro Arg Leu Phe Pro Leu Ala Trp
180 185 190

Thr Val Leu Leu Leu Pro Leu Leu Leu Gln Thr Pro
195 200 205

<210> 10
<211> 213
<212> PRT
<213> Homo sapiens

<400> 10

Met Ala Pro Ala Gln Arg Pro Leu Leu Pro Leu Leu Leu Leu Leu Leu
1 5 10 15

Pro Leu Pro Pro Pro Phe Ala Arg Ala Glu Asp Ala Ala Arg Ala
20 25 30

Asn Ser Asp Arg Tyr Ala Val Tyr Trp Asn Arg Ser Asn Pro Arg Phe
35 40 45

His Ala Gly Ala Gly Asp Asp Gly Gly Gly Tyr Thr Val Glu Val Ser
11

50

55

60

Ile Asn Asp Tyr Leu Asp Ile Tyr Cys Pro His Tyr Gly Ala Pro Leu
65 70 75 80

Pro Pro Ala Glu Arg Met Glu His Tyr Val Leu Tyr Met Val Asn Gly
85 90 95

Glu Gly His Ala Ser Cys Asp His Arg Gln Arg Gly Phe Lys Arg Trp
100 105 110

Glu Cys Asn Arg Pro Ala Ala Pro Gly Gly Pro Leu Lys Phe Ser Glu
115 120 125

Lys Phe Gln Leu Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Arg Pro
130 135 140

Gly His Glu Tyr Tyr Tyr Ile Ser Ala Thr Pro Pro Asn Ala Val Asp
145 150 155 160

Arg Pro Cys Leu Arg Leu Lys Val Tyr Val Arg Pro Thr Asn Glu Thr
165 170 175

Leu Tyr Glu Ala Pro Glu Pro Ile Phe Thr Ser Asn Asn Ser Cys Ser
180 185 190

Ser Pro Gly Gly Cys Arg Leu Phe Leu Ser Thr Ile Pro Val Leu Trp
195 200 205

Thr Leu Leu Gly Ser
210

<210> 11
<211> 238
<212> PRT
<213> Homo sapiens

<400> 11

Met Ala Ala Ala Pro Leu Leu Leu Leu Leu Leu Val Pro Val Pro
1 5 10 15

Leu Leu Pro Leu Leu Ala Gln Gly Pro Gly Gly Ala Leu Gly Asn Arg
20 25 30

His Ala Val Tyr Trp Asn Ser Ser Asn Gln His Leu Arg Arg Glu Gly
35 40 45

Tyr Thr Val Gln Val Asn Val Asn Asp Tyr Leu Asp Ile Tyr Cys Pro
50 55 60

His Tyr Asn Ser Ser Gly Val Gly Pro Gly Ala Gly Pro Gly Pro Gly
65 70 75 80

Gly Gly Ala Glu Gln Tyr Val Leu Tyr Met Val Ser Arg Asn Gly Tyr
85 90 95

Arg Thr Cys Asn Ala Ser Gln Gly Phe Lys Arg Trp Glu Cys Asn Arg
100 105 110

Pro His Ala Pro His Ser Pro Ile Lys Phe Ser Glu Lys Phe Gln Arg
115 120 125

Tyr Ser Ala Phe Ser Leu Gly Tyr Glu Phe His Ala Gly His Glu Tyr
130 135 140

Tyr Tyr Ile Ser Thr Pro Thr His Asn Leu His Trp Lys Cys Leu Arg
145 150 155 160

Met Lys Val Phe Val Cys Cys Ala Ser Thr Ser His Ser Gly Glu Lys
165 170 175

Pro Val Pro Thr Leu Pro Gln Phe Thr Met Gly Pro Asn Val Lys Ile
180 185 190

Asn Val Leu Glu Asp Phe Glu Gly Glu Asn Pro Gln Val Pro Lys Leu
195 200 205

Glu Lys Ser Ile Ser Gly Thr Ser Pro Lys Arg Glu His Leu Pro Leu
210 215 220

Ala Val Gly Ile Ala Phe Phe Leu Met Thr Phe Leu Ala Ser
225 230 235

<210> 12
<211> 201
<212> PRT
<213> Homo sapiens

<400> 12

Met Arg Leu Leu Pro Leu Leu Arg Thr Val Leu Trp Ala Ala Phe Leu
1 5 10 15

Gly Ser Pro Leu Arg Gly Gly Ser Ser Leu Arg His Val Val Tyr Trp
20 25 30

Asn Ser Ser Asn Pro Arg Leu Leu Arg Gly Asp Ala Val Val Glu Leu
35 40 45

Gly Leu Asn Asp Tyr Leu Asp Ile Val Cys Pro His Tyr Glu Gly Pro
50 55 60

Gly Pro Pro Glu Gly Pro Glu Thr Phe Ala Leu Tyr Met Val Asp Trp
65 70 75 80

Pro Gly Tyr Glu Ser Cys Gln Ala Glu Gly Pro Arg Ala Tyr Lys Arg
85 90 95

Trp Val Cys Ser Leu Pro Phe Gly His Val Gln Phe Ser Glu Lys Ile
100 105 110

Gln Arg Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Leu Pro Gly Glu
115 120 125

Thr Tyr Tyr Tyr Ile Ser Val Pro Thr Pro Glu Ser Ser Gly Gln Cys
130 135 140

Leu Arg Leu Gln Val Ser Val Cys Cys Lys Glu Arg Lys Ser Glu Ser
145 150 155 160

Ala His Pro Val Gly Ser Pro Gly Glu Ser Gly Thr Ser Gly Trp Arg
165 170 175

Gly Gly Asp Thr Pro Ser Pro Leu Cys Leu Leu Leu Leu Leu Leu Leu
180 185 190

Leu Ile Leu Arg Leu Leu Arg Ile Leu
195 200

<210> 13
<211> 228
<212> PRT
<213> Homo sapiens

<400> 13

Met Leu His Val Glu Met Leu Thr Leu Val Phe Leu Val Leu Trp Met
1 5 10 15

Cys Val Phe Ser Gln Asp Pro Gly Ser Lys Ala Val Ala Asp Arg Tyr
20 25 30

Ala Val Tyr Trp Asn Ser Ser Asn Pro Arg Phe Gln Arg Gly Asp Tyr
35 40 45

His Ile Asp Val Cys Ile Asn Asp Tyr Leu Asp Val Phe Cys Pro His
50 55 60

Tyr Glu Asp Ser Val Pro Glu Asp Lys Thr Glu Arg Tyr Val Leu Tyr
65 70 75 80

Met Val Asn Phe Asp Gly Tyr Ser Ala Cys Asp His Thr Ser Lys Gly
85 90 95

Phe Lys Arg Trp Glu Cys Asn Arg Pro His Ser Pro Asn Gly Pro Leu
100 105 110

Lys Phe Ser Glu Lys Phe Gln Leu Phe Thr Pro Phe Ser Leu Gly Phe
115 120 125

Glu Phe Arg Pro Gly Arg Glu Tyr Phe Tyr Ile Ser Ser Ala Ile Pro
130 135 140

Asp Asn Gly Arg Arg Ser Cys Leu Lys Leu Lys Val Phe Val Arg Pro
145 150 155 160

Thr Asn Ser Cys Met Lys Thr Ile Gly Val His Asp Arg Val Phe Asp
165 170 175

Val Asn Asp Lys Val Glu Asn Ser Leu Glu Pro Ala Asp Asp Thr Val
180 185 190

His Glu Ser Ala Glu Pro Ser Arg Gly Glu Asn Ala Ala Gln Thr Pro
195 200 205

Arg Ile Pro Ser Arg Leu Leu Ala Ile Leu Leu Phe Leu Leu Ala Met
210 215 220

Leu Leu Thr Leu
225

<210> 14
<211> 346
<212> PRT
<213> Homo sapiens

<400> 14

Met Ala Arg Pro Gly Gln Arg Trp Leu Gly Lys Trp Leu Val Ala Met
1 5 10 15

Val Val Trp Ala Leu Cys Arg Leu Ala Thr Pro Leu Ala Lys Asn Leu
20 25 30

Glu Pro Val Ser Trp Ser Ser Leu Asn Pro Lys Phe Leu Ser Gly Lys
35 40 45

Gly Leu Val Ile Tyr Pro Lys Ile Gly Asp Lys Leu Asp Ile Ile Cys
15

50

55

60

Pro Arg Ala Glu Ala Gly Arg Pro Tyr Glu Tyr Tyr Lys Leu Tyr Leu
65 70 75 80

Val Arg Pro Glu Gln Ala Ala Ala Cys Ser Thr Val Leu Asp Pro Asn
85 90 95

Val Leu Val Thr Cys Asn Arg Pro Glu Gln Glu Ile Arg Phe Thr Ile
100 105 110

Lys Phe Gln Glu Phe Ser Pro Asn Tyr Met Gly Leu Glu Phe Lys Lys
115 120 125

His His Asp Tyr Tyr Ile Thr Ser Thr Ser Asn Gly Ser Leu Glu Gly
130 135 140

Leu Glu Asn Arg Glu Gly Gly Val Cys Arg Thr Arg Thr Met Lys Ile
145 150 155 160

Ile Met Lys Val Gly Gln Asp Pro Asn Ala Val Thr Pro Glu Gln Leu
165 170 175

Thr Thr Ser Arg Pro Ser Lys Glu Ala Asp Asn Thr Val Lys Met Ala
180 185 190

Thr Gln Ala Pro Gly Ser Arg Gly Ser Leu Gly Asp Ser Asp Gly Lys
195 200 205

His Glu Thr Val Asn Gln Glu Glu Lys Ser Gly Pro Gly Ala Ser Gly
210 215 220

Gly Ser Ser Gly Asp Pro Asp Gly Phe Phe Asn Ser Lys Val Ala Leu
225 230 235 240

Phe Ala Ala Val Gly Ala Gly Cys Val Ile Phe Leu Leu Ile Ile Ile
245 250 255

Phe Leu Thr Val Leu Leu Leu Lys Leu Arg Lys Arg His Arg Lys His
260 265 270

Thr Gln Gln Arg Ala Ala Ala Leu Ser Leu Ser Thr Leu Ala Ser Pro
275 280 285

Lys Gly Gly Ser Gly Thr Ala Gly Thr Glu Pro Ser Asp Ile Ile Ile
290 295 300

Pro Leu Arg Thr Thr Glu Asn Asn Tyr Cys Pro His Tyr Glu Lys Val
16

305 310 315 320

Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu Met Pro Pro
 325 330 335

Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
 340 345

<210> 15
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 15

Met Ala Val Arg Arg Asp Ser Val Trp Lys Tyr Cys Trp Gly Val Leu
 1 5 10 15

Met Val Leu Cys Arg Thr Ala Ile Ser Lys Ser Ile Val Leu Glu Pro
 20 25 30

Ile Tyr Trp Asn Ser Ser Asn Ser Lys Phe Leu Pro Gly Gln Gly Leu
 35 40 45

Val Leu Tyr Pro Gln Ile Gly Asp Lys Leu Asp Ile Ile Cys Pro Lys
 50 55 60

Val Asp Ser Lys Thr Val Gly Gln Tyr Glu Tyr Tyr Lys Val Tyr Met
 65 70 75 80

Val Asp Lys Asp Gln Ala Asp Arg Cys Thr Ile Lys Lys Glu Asn Thr
 85 90 95

Pro Leu Leu Asn Cys Ala Lys Pro Asp Gln Asp Ile Lys Phe Thr Ile
 100 105 110

Lys Phe Gln Glu Phe Ser Pro Asn Leu Trp Gly Leu Glu Phe Gln Lys
 115 120 125

Asn Lys Asp Tyr Tyr Ile Ile Ser Thr Ser Asn Gly Ser Leu Glu Gly
 130 135 140

Leu Asp Asn Gln Glu Gly Gly Val Cys Gln Thr Arg Ala Met Lys Ile
 145 150 155 160

Leu Met Lys Val Gly Gln Asp Ala Ser Ser Ala Gly Ser Thr Arg Asn
 165 170 175

Lys Asp Pro Thr Arg Arg Pro Glu Leu Glu Ala Gly Thr Asn Gly Arg
 180 185 190

Ser Ser Thr Thr Ser Pro Phe Val Lys Pro Asn Pro Gly Ser Ser Thr
195 200 205

Asp Gly Asn Ser Ala Gly His Ser Gly Asn Asn Ile Leu Gly Ser Glu
210 215 220

Val Ala Leu Phe Ala Gly Ile Ala Ser Gly Cys Ile Ile Phe Ile Val
225 230 235 240

Ile Ile Ile Thr Leu Val Val Leu Leu Leu Lys Tyr Arg Arg Arg His
245 250 255

Arg Lys His Ser Pro Gln His Thr Thr Thr Leu Ser Leu Ser Thr Leu
260 265 270

Ala Thr Pro Lys Arg Ser Gly Asn Asn Asn Gly Ser Glu Pro Ser Asp
275 280 285

Ile Ile Ile Pro Leu Arg Thr Ala Asp Ser Val Phe Cys Pro His Tyr
290 295 300

Glu Lys Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu
305 310 315 320

Met Pro Pro Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
325 330

<210> 16
<211> 340
<212> PRT
<213> Homo sapiens

<400> 16

Met Gly Pro Pro His Ser Gly Pro Gly Gly Val Arg Val Gly Ala Leu
1 5 10 15

Leu Leu Leu Gly Val Leu Gly Leu Val Ser Gly Leu Ser Leu Glu Pro
20 25 30

Val Tyr Trp Asn Ser Ala Asn Lys Arg Phe Gln Ala Glu Gly Gly Tyr
35 40 45

Val Leu Tyr Pro Gln Ile Gly Asp Arg Leu Asp Leu Leu Cys Pro Arg
50 55 60

Ala Arg Pro Pro Gly Pro His Ser Ser Pro Asn Tyr Glu Phe Tyr Lys
65 70 75 80

Leu Tyr Leu Val Gly Gly Ala Gln Gly Arg Arg Cys Glu Ala Pro Pro
 85 90 95
 Ala Pro Asn Leu Leu Leu Thr Cys Asp Arg Pro Asp Leu Asp Leu Arg
 100 105 110
 Phe Thr Ile Lys Phe Gln Glu Tyr Ser Pro Asn Leu Trp Gly His Glu
 115 120 125
 Phe Arg Ser His His Asp Tyr Tyr Ile Ile Ala Thr Ser Asp Gly Thr
 130 135 140
 Arg Glu Gly Leu Glu Ser Leu Gln Gly Gly Val Cys Leu Thr Arg Gly
 145 150 155 160
 Met Lys Val Leu Leu Arg Val Gly Gln Ser Pro Arg Gly Gly Ala Val
 165 170 175
 Pro Arg Lys Pro Val Ser Glu Met Pro Met Glu Arg Asp Arg Gly Ala
 180 185 190
 Ala His Ser Leu Glu Pro Gly Lys Glu Asn Leu Pro Gly Asp Pro Thr
 195 200 205
 Ser Asn Ala Thr Ser Arg Gly Ala Glu Gly Pro Leu Pro Pro Pro Ser
 210 215 220
 Met Pro Ala Val Ala Gly Ala Ala Gly Gly Leu Ala Leu Leu Leu Leu
 225 230 235 240
 Gly Val Ala Gly Ala Gly Gly Ala Met Cys Trp Arg Arg Arg Arg Ala
 245 250 255
 Lys Pro Ser Glu Ser Arg His Pro Gly Pro Gly Ser Phe Gly Arg Gly
 260 265 270
 Gly Ser Leu Gly Leu Gly Gly Gly Gly Gly Met Gly Pro Arg Glu Ala
 275 280 285
 Glu Pro Gly Glu Leu Gly Ile Ala Leu Arg Gly Gly Gly Ala Ala Asp
 290 295 300
 Pro Pro Phe Cys Pro His Tyr Glu Lys Val Ser Gly Asp Tyr Gly His
 305 310 315 320
 Pro Val Tyr Ile Val Gln Asp Gly Pro Pro Gln Ser Pro Pro Asn Ile
 325 330 335

Tyr Tyr Lys Val
340

<210> 17
<211> 417
<212> PRT
<213> Artificial

<220>
<223> GST-EphA7-LBD fusion protein

<400> 17

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
1 5 10 15

Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
20 25 30

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
35 40 45

Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
50 55 60

Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
65 70 75 80

Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
85 90 95

Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
100 105 110

Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
115 120 125

Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
130 135 140

Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
145 150 155 160

Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
165 170 175

Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
180 185 190

Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
20

195					200					205					
Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg
	210					215					220				
Gly	Ser	Pro	Glu	Phe	Pro	Gly	Glu	Val	Leu	Leu	Leu	Asp	Ser	Lys	Ala
225					230					235					240
Gln	Gln	Thr	Glu	Leu	Glu	Trp	Ile	Ser	Ser	Pro	Pro	Asn	Gly	Trp	Glu
				245					250					255	
Glu	Ile	Ser	Gly	Leu	Asp	Glu	Asn	Tyr	Thr	Pro	Ile	Arg	Thr	Tyr	Gln
			260					265					270		
Val	Cys	Gln	Val	Met	Glu	Pro	Asn	Gln	Asn	Asn	Trp	Leu	Arg	Thr	Asn
		275					280					285			
Trp	Ile	Ser	Lys	Gly	Asn	Ala	Gln	Arg	Ile	Phe	Val	Glu	Leu	Lys	Phe
	290					295					300				
Thr	Leu	Arg	Asp	Cys	Asn	Ser	Leu	Pro	Gly	Val	Leu	Gly	Thr	Cys	Lys
305					310					315					320
Glu	Thr	Phe	Asn	Leu	Tyr	Tyr	Tyr	Glu	Thr	Asp	Tyr	Asp	Thr	Gly	Arg
				325					330					335	
Asn	Ile	Arg	Glu	Asn	Leu	Tyr	Val	Lys	Ile	Asp	Thr	Ile	Ala	Ala	Asp
			340					345					350		
Glu	Ser	Phe	Thr	Gln	Gly	Asp	Leu	Gly	Glu	Arg	Lys	Met	Lys	Leu	Asn
		355					360					365			
Thr	Glu	Val	Arg	Glu	Ile	Gly	Pro	Leu	Ser	Lys	Lys	Gly	Phe	Tyr	Leu
	370					375					380				
Ala	Phe	Gln	Asp	Val	Gly	Ala	Cys	Ile	Ala	Leu	Val	Ser	Val	Lys	Val
385					390					395					400
Tyr	Tyr	Lys	Lys	Cys	Trp	Ser	Ile	Ile	Glu	Leu	Glu	Arg	Pro	His	Arg
				405					410					415	

Asp

<210> 18
 <211> 184
 <212> PRT
 <213> Mouse

<400> 18

Met Ala Pro Ala Gln Arg Pro Leu Leu Pro Leu Leu Leu Leu Leu Leu
1 5 10 15

Pro Leu Arg Ala Arg Asn Glu Asp Pro Ala Arg Ala Asn Ala Asp Arg
20 25 30

Tyr Ala Val Tyr Trp Asn Arg Ser Asn Pro Arg Phe Gln Val Ser Ala
35 40 45

Val Gly Asp Gly Gly Gly Tyr Thr Val Glu Val Ser Ile Asn Asp Tyr
50 55 60

Leu Asp Ile Tyr Cys Pro His Tyr Gly Ala Pro Leu Pro Pro Ala Glu
65 70 75 80

Arg Met Glu Arg Tyr Ile Leu Tyr Met Val Asn Gly Glu Gly His Ala
85 90 95

Ser Cys Asp His Arg Gln Arg Gly Phe Lys Arg Trp Glu Cys Asn Arg
100 105 110

Pro Ala Ala Pro Gly Gly Pro Leu Lys Phe Ser Glu Lys Phe Gln Leu
115 120 125

Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Arg Pro Gly His Glu Tyr
130 135 140

Tyr Tyr Ile Ser Ala Thr Pro Pro Asn Leu Val Asp Arg Pro Cys Leu
145 150 155 160

Arg Leu Lys Val Tyr Val Arg Pro Thr Asn Glu Thr Leu Tyr Glu Ala
165 170 175

Pro Glu Pro Ile Phe Thr Ser Asn
180

<210> 19

<211> 188

<212> PRT

<213> Human

<400> 19

Met Ala Pro Ala Gln Ala Pro Leu Leu Pro Leu Leu Leu Leu Leu Leu
1 5 10 15

Pro Leu Pro Pro Pro Phe Ala Pro Pro Glu Asp Arg Arg Arg Ala
20 25 30

Asn Ser Asp Arg Tyr Ala Val Tyr Trp Asn Arg Ser Asn Pro Arg Phe
35 40 45

His Ala Gly Ala Gly Asp Asp Gly Gly Gly Tyr Thr Val Glu Val Ser
50 55 60

Ile Asn Asp Tyr Leu Asp Ile Tyr Cys Pro His Tyr Gly Ala Pro Leu
65 70 75 80

Pro Pro Ala Glu Arg Met Glu His Tyr Val Leu Tyr Met Val Asn Gly
85 90 95

Glu Gly His Ala Ser Cys Asp His Arg Gln Arg Gly Phe Lys Arg Trp
100 105 110

Glu Cys Asn Arg Pro Ala Ala Pro Gly Gly Pro Leu Lys Phe Ser Glu
115 120 125

Lys Phe Gln Leu Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Arg Pro
130 135 140

Gly His Glu Tyr Tyr Tyr Ile Ser Ala Thr Pro Pro Asn Ala Val Asp
145 150 155 160

Arg Pro Cys Leu Arg Leu Lys Val Tyr Val Arg Pro Thr Asn Glu Thr
165 170 175

Leu Tyr Glu Ala Pro Glu Pro Ile Phe Thr Ser Asn
180 185

<210> 20
<211> 229
<212> PRT
<213> Mouse

<400> 20

Met Ala Met Ala Arg Ser Arg Arg Asp Ser Val Trp Lys Tyr Cys Trp
1 5 10 15

Gly Leu Leu Met Val Leu Cys Arg Thr Ala Ile Ser Arg Ser Ile Val
20 25 30

Leu Glu Pro Ile Tyr Trp Asn Ser Ser Asn Ser Lys Phe Leu Pro Gly
35 40 45

Gln Gly Leu Val Leu Tyr Pro Gln Ile Gly Asp Lys Leu Asp Ile Ile
50 55 60

Cys Pro Lys Val Asp Ser Lys Thr Val Gly Gln Tyr Glu Tyr Tyr Lys
65 70 75 80

Val Tyr Met Val Asp Lys Asp Gln Ala Asp Arg Cys Thr Ile Lys Lys
85 90 95

Glu Asn Thr Pro Leu Leu Asn Cys Ala Arg Pro Asp Gln Asp Val Lys
100 105 110

Phe Thr Ile Lys Phe Gln Glu Phe Ser Pro Asn Leu Trp Gly Leu Glu
115 120 125

Phe Gln Lys Asn Lys Asp Tyr Tyr Ile Ile Ser Thr Ser Asn Gly Ser
130 135 140

Leu Glu Gly Leu Asp Asn Gln Glu Gly Gly Val Cys Gln Thr Arg Ala
145 150 155 160

Met Lys Ile Leu Met Lys Val Gly Gln Asp Ala Ser Ser Ala Gly Ser
165 170 175

Ala Arg Asn His Gly Pro Thr Arg Arg Pro Glu Leu Glu Ala Gly Thr
180 185 190

Asn Gly Arg Ser Ser Thr Thr Ser Pro Phe Val Lys Pro Asn Pro Gly
195 200 205

Ser Ser Thr Asp Gly Asn Ser Ala Gly His Ser Gly Asn Asn Leu Leu
210 215 220

Gly Ser Glu Val Ala
225

<210> 21
<211> 226
<212> PRT
<213> Human

<400> 21

Met Ala Val Arg Arg Asp Ser Val Trp Lys Tyr Cys Trp Gly Val Leu
1 5 10 15

Met Val Leu Cys Arg Thr Ala Ile Ser Lys Ser Ile Val Leu Glu Pro
20 25 30

Ile Tyr Trp Asn Ser Ser Asn Ser Lys Phe Leu Pro Gly Gln Gly Leu
35 40 45

Val Leu Tyr Pro Gln Ile Gly Asp Lys Leu Asp Ile Ile Cys Pro Lys
24

50

55

60

Val Asp Ser Lys Thr Val Gly Gln Tyr Glu Tyr Tyr Lys Val Tyr Met
65 70 75 80

Val Asp Lys Asp Gln Ala Asp Arg Cys Thr Ile Lys Lys Glu Asn Thr
85 90 95

Pro Leu Leu Asn Cys Ala Lys Pro Asp Gln Asp Ile Lys Phe Thr Ile
100 105 110

Lys Phe Gln Glu Phe Ser Pro Asn Leu Trp Gly Leu Glu Phe Gln Lys
115 120 125

Asn Lys Asp Tyr Tyr Ile Ile Ser Thr Ser Asn Gly Ser Leu Glu Gly
130 135 140

Leu Asp Asn Gln Glu Gly Gly Val Cys Gln Thr Arg Ala Met Lys Ile
145 150 155 160

Leu Met Lys Val Gly Gln Asp Ala Ser Ser Ala Gly Ser Thr Arg Asn
165 170 175

Lys Asp Pro Thr Arg Arg Pro Glu Leu Glu Ala Gly Thr Asn Gly Arg
180 185 190

Ser Ser Thr Thr Ser Pro Phe Val Lys Pro Asn Pro Gly Ser Ser Thr
195 200 205

Asp Gly Asn Ser Ala Gly His Ser Gly Asn Asn Ile Leu Gly Ser Glu
210 215 220

Val Ala
225

<210> 22
<211> 330
<212> PRT
<213> Homo sapiens

<400> 22

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 325 330

<210> 23
 <211> 4
 <212> PRT
 <213> Mus musculus

<400> 23

Met Arg Leu Leu
 1

<210> 24
 <211> 22
 <212> PRT
 <213> Mus musculus

<400> 24

Met Leu Leu Arg Leu Gly Leu Ile Tyr Pro Pro Thr Arg Pro Pro Ala
 1 5 10 15

Pro Pro Gly Pro Leu Val
 20

<210> 25
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 25

Val Gly Pro Gly
 1